(PATENT COOPERATION TREATY)

발신 : 국제조사기관	
수신 :	PCT RECEIVED
YOU ME PATENT & LAW FIRM	
Teheran Bldg., 825-33 Yoksam-dong, Kangnam-ku 135- 080 Seoul Republic of Korea	국제조사보고서 또는 국제조차보고서 부작성 선언서 송부 통지서
	(PCT 규칙 44.1)
	발송일 30 JANUARY 2003 (30.01.2003) (일/월/년)
출원인 또는 대리인 서류참조기호 OPP020600KR	이후의 절차에 대하여는 아래 1. 및 4. 참조
국제출원번호 PCT/KR02/01766	국제출원일 (일/월/년) 18 SEPTEMBER 2002 (18.09.2002)
출원인	
SAMSUNG ELECTRONICS CO., LTD. et al	
. MO 그 - 나 - 나리 키브리시 시크 스브라 오 초이이네	기 등기하니다

<u>L</u>	희망하는	19조의 규정에 의한 보정서 및 설명서의 제출: = 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다.(조약규칙 46): 보정서 제출기간은 통상 국제조사보고서 송부일부터 2월.
	제출처	The international Bureau of WIPO 34. chemin des Colmbetts

1211 Geneva 20, Switzerland Faxcimile No.: (41-22) 740 14 35

보다 자세한 지침에 대하여는 첨부되는 용지에 기재된 설명을 참조.

2.	[] 국제조사보고서가 작성되지 아니할 것이며 조약 제17조(2)(a)의 규정에 의한 신인시가 중구됩을 둘 원인에게 통지합니다.
2	□ ~ 야규칭 40.2일 규정에 의한 추가수수료 납부에 대한 이의신청과 관련하여 아래 사항을 출원인에

게 통지합니다. ─ 이의신청 및 이의신청에 대한 결정 통지서를 출원인이 제출한 이의신청 및 이의신청에 대한

결정 통지서의 지정관청에의 송부 신청서와 함께 국제사무국에 송부하였습니다. ______이의신청에 대한 결정이 아직 이루어지지 않았습니다. 결정이 이루어지는 대로 출원인에게 통지할 것입니다.

4. 주의사항 우선일부터 18월 직후 국제사무국은 국제출원을 공개합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 경우에는 출원인은 국제공개의 기술적 준비가 완료되기 전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3 의 규정에 의한 국제출원 취하서 또는 우선권주장 취하서를 국제사무국에 제출하여야 합니다.

일부 지정관청에 대하여는 출원인이 우선일부터 30월까지 (일부관청에 대하여는 더 늦을수도 있음) 국내단계 의 개시를 연기하고자 하는 경우에는 우선일부터 19월이내에 국제예비심사를 청구하여야 합니다; 그렇지 않은 경우 출원인은 우선일부터 20월 이내에 당해 지정관청에 대한 국내단계의 개시를 위한 규정된 절차를 밟아야 합니다.

다른 지정관청에 대하여는, 우선일부터 19월 이내에 국제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도 있음)의 기간이 적용될 것입니다.

서식 PCT/IB/301의 부속서류를 참조하기 바라며, 각 특허청마다의 적용기간에 대한 구체적인 사항은 PCT출원인 안내 제2권 국내단계 및 WIPO 인터넷 사이트를 참조하시기 바랍니다.

ISA/KR의 명칭 및 우편주소

대한민국 특허청 302-701 대한민국 대전광역시 서구 둔산동 920번지 정부대전청사

전화번호 82-42-481-5208

특허청장



팩스 번호 82-42-472-7140



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP020600KR	FOR FURTHER See Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/KR02/01766	18 SEPTEMBER 200	2 (18.09.2002)	02 AUGUST 2002 (02.08.2002)		
Applicant SAMSUNG ELECTRONICS CO., LT	D at al				
This International search report has been prep to Article 18. A copy is being transmitted to t	the International Bureau.	Searching Authority	and is transmitted to the applicant according		
This international search report consists of a limit like in like it is also accompanied by a con			i.		
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
Authority (Rule 23.1(b)). b. With regard to any nucleotide and	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search				
	was carried out on the basis of the sequence listing: contained in the international application in written form.				
	filed together with the international application in computer readable form.				
furnished subsequently to this furnished subsequently to this					
the statement that the subsequentty furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
the statement that the informat furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has been				
2. Certain claims were found un					
4. With regard to the title,	3. Unity of invention is lacking (See Box II). 4. With regard to the title.				
The text is approved as submitte	ed by the applicant.				
the text has been established by		s follows:	•		
5. With regard to the abstract,					
X the text is approved as submitted		hy thic Authority as it	annears in Box III. The applicant may		
	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawing to be pub.	lished with the abstract is	Figure No. 3			
X as suggested by the applicant.			None of the figures.		
because the applicant failed to					
because this figure better chara	cterizes the invention.				

CLASSIFICATION OF SUBJECT MATTER IPC7 G02F 1/1333 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7 G02F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KR, JP: as above Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) PAJ " spacer" liquid crystal" substrate "color filter display" DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category* 1-11 US 6,285,424 (Sumitomo Chemical Co., Ltd.) 04, September, 2001 Α see whole document 1-11 JP 01265231 (Seiko Epson Co.) 23, October, 1989 Α see whole document 1-11 JP 03059522 (Hitachi Ltd.) 14, March, 1991 Y see claims See patent family annex. Further documents are listed in the continuation of Box C. later document published after the international filing date or priority Special categories of cited documents: date and not in conflict with the application but cited to understand "A" document defining the general state of the art which is not considered the principle or theory underlying the invention to be of particular relevence "E" earlier application or patent but published on or after the international document of particular relevence; the claimed invention cannot be considered novel or cannot be considered to involve an inventive filing date step when the document is taken alone document which may throw doubts on priority claim(s) or which is document of particular relevence; the claimed invention cannot be cited to establish the publication date of citation or other considered to involve an inventive step when the document is special reason (as specified) combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art "&" document member of the same patent family document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 27 JANUARY 2003 (27.01.2003) 27 JANUARY 2003 (27.01.2003) Authorized officer Name and mailing address of the ISA/KR Korean Intellectual Property Office CHO, Kyoung Hwa 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Telephone No. 82-42-481-5767

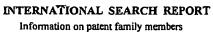
Facsimile No. 82-42-472-7140

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,285,424	04 - 09 - 2001	US 6,128,057	03 - 10 - 2000
JP 01265231	23 - 10 - 1989	None	
JP 03059522	14 - 03 - 1991	None	



International application No. PCT/KR02/01766

A. CLASSIFICATION OF SUBJECT MATTER				
IPC7	IPC7 G02F 1/1333			
According to I	According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIEL	DS SEARCHED			
Minimum doc	umentation searched (classification system followed by	classification symbols)	•	
IPC7 G02F				
	n searched other than minimum documentation to the e	xtent that such documents are included in the I	ieids searched	
KR, IP : as al	oove			
Electronic date	a base consulted during the intertnational search (name	of data base and, where practicable, search terr	ns used)	
PAJ " spacer	""liquid crystal""substrate""color filter""display"			
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.	
A	US 6,285,424 (Sumitomo Chemical Co., Ltd.) 04, S	eptember, 2001	1-11	
	see whole document		,	
A	JP 01265231 (Seiko Epson Co.) 23, October, 1989		1-11	
	see whole document			
			1-11	
Y	Y JP 03059522 (Hitachi Ltd.) 14, March, 1991 see claims		1-11	
 				
Further	documents are listed in the continuation of Box C.	See patent family annex.		
	ategories of cited documents:	"T" later document published after the internation		
I	defining the general state of the art which is not considered articular relevence	date and not in conflict with the application the principle or theory underlying the inver-		
"E" earlier ap	plication or patent but published on or after the international	"X" document of particular relevence; the claim	ed invention cannot be	
filing date	: t which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered step when the document is taken alone	to involve an inventive	
cited to e	stablish the publication date of citation or other	"Y" document of particular relevence; the claim		
	ason (as specified) referring to an oral disclosure, use, exhibition or other	considered to involve an inventive step w combined with one or more other such doc		
means being obvious to a person skilled in the art				
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search		Date of mailing of the international search report		
27 JANUARY 2003 (27.01.2003)		27 JANUARY 2003 (27.01.2003)	
Name and ma	iling address of the ISA/KR	Authorized officer		
	Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	CHO, Kyoung Hwa		
#4 -	82-42-472-7140	Telephone No. 82-42-481-5767	Marie Contraction of the Contrac	



International application No.

PCT/KR02/01766

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,285,424	04 - 09 - 2001	US 6,128,057	03 - 10 - 2000
JP 01265231	23 - 10 - 1989	None	
JP 03059522	14 - 03 - 1991	None	